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GUILFORD JP/LACEY JI (EDS) - PRINTED CLASSIFICATION TESTS
WASHINGTON GPO 1947 (AAF AVIAT PSYCHOL REPORT #5)
TABLE 9.18 P.183 - FORESIGHT & PLANNING BATTERY
MALE CLASSIFIED PILOTS

N=170

*** HIERARCHICAL FACTOR MATRIX, ORDER 1 ***

V#	1	2	3	4	5	H^2
FACTOR 1: O2;F1 GEN'L COGNITIVE ABILITY ..2G; ORDER 2						
FACTOR 2: O1;F2 REASONING(PLANNING).....RG; ORDER 1						
1 +12 ROUTE PLANNING .....	.51	.27	-.20	.06	.01	.38
2 +13 MAP PLANNING .....	.55	.24	-.03	-.05	.27	.44
3 +11 PLANNING A COURSE .....	.57	.17	.16	.03	.20	.42
4 +14 COMPETITIVE PLANNING .....	.49	.15	.17	.09	-.06	.30
FACTOR 3: O1;F3 NUMERICAL FACILITY .....N; ORDER 1						
5 +#5 MATHEMATICS B .....	.52	.00	.60	.19	-.09	.68
6 +#6 NUMERICAL OPERATIONS .....	.35	.04	.52	-.15	.05	.42
7 +#3 TECHNICAL VOCABULARY-NAVIGATORS	.15	-.20	.484	.345	.12	.42
FACTOR 4: O1;F1 MECHANICAL/JUDGMENT .....MK; ORDER 1						
8 +#8 MECHANICAL PRINCIPLES .....	.31	-.07	-.06	.72	.04	.62
9 +#4 READING COMPREHENSION .....	.16	-.264	.395	.68	.05	.71
10 +#7 MECHANICAL INFORMATION	-.01	-.18	-.08	.64	.05	.44
11 +15 PRACTICAL JUDGEMENT I .....	.43	.02	.18	.40	-.02	.37
12 +10 PLANNING AIR MANEUVERS .....	.46	.08	.03	.36	.01	.35
13 +17 PRACTICAL ESTIMATIONS I .....	.27	.04	.00	.35	-.20	.24
14 +18 PRACTICAL ESTIMATIONS II .....	.30	.04	-.01	.34	-.03	.21
15 +16 PRACTICAL JUDGEMENT II .....	.37	.05	.16	.30	-.16	.28
16 +19 JUDGEMENT OF PROPORTIONS .....	.27	.03	.02	.19	.18	.15
FACTOR 5: O1;F4 PERCEPTUAL SPEED .....P; ORDER 1						
17 +#2 SPATIAL ORIENTATION I .....	.33	.03	.12	-.02	.64	.54
18 +#1 SPEED OF IDENTIFICATION22	.02	-.05	.05	.57	.38
19 +#9 SAM COMPLEX COORDINATION34	.04	.01	.24	.27	.25
SMSQ: 2.72 .34 1.19 2.29 1.06 7.60						

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(CONTINUED)

*** HIERARCHICAL FACTOR MATRIX, ORDER 2 ***

HF #	1ST-ORD FACTOR	1	H ²
	FACTOR 1: O2;F1 GEN'L COGNITIVE ABILITY ..2G; ORDER 2		
HF 2	O1;F2 REASONING(PLANNING).....RG	.91	.83
HF 3	O1;F3 NUMERICAL FACILITY .....N	.56	.32
HF 4	O1;F1 MECHANICAL/JUDGMENT .....MK	.56	.31
HF 5	O1;F4 PERCEPTUAL SPEED .....P	.29	.09
		SMSQ: 1.55	1.55